

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Lei Duan, et al.) Examiner: Unassigned
Serial No.: Unassigned) Art Unit: Unassigned
Filed: Unassigned)
For: METHOD AND APPARATUS FOR REDUCING)
LEXICAL AMBIGUITY OF AN INPUT)
SENTENCE PROCESSED BY A NATURAL)
LANGUAGE TRANSLATION SYSTEM)
Which is a continuation of:)
Serial No. 09/420,517)
Filed: October 18, 1999)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant hereby request consideration of the enclosed Information Disclosure Statement pursuant to 37 C.F.R. § 1.97(c).

Attached are the PTO Forms 1449 and Form 892 from the parent application filed on October 18, 1999, (Serial No. 09/420,517). This previous application is relied upon for an earlier filing date under 35 U.S.C. 120.

Pursuant to C.F.R. 1.98(d), copies of the references are not being provided herewith since they were previously sent to the patent and Trademark Office. Please consider theses cited documents in the currently pending 1.53(b) divisional application filed October 19, 1999.

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP



Dated: February 17, 2004

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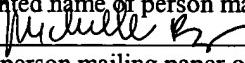
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Examiner Signature	<i>PATRICK J. EDWARDS</i>	Date Considered
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Substitute for Form 1449A/PTO (Modified)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	09/420,517
Filing Date	10/18/99
First Named Inventor:	Duan
Group Art Unit	2654
Examiner Name	Edouard, P.

Sheet

1

of

3

Attorney Docket Number

80398.P276

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
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Examiner Signature	PATRICK N. EDOUARD	Date Considered 09/27/03	
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Sheet 1 of 2 Attorney Docket Number 80398.P276

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Notice of References Cited	Application/Control No. 09/420,517	Applicant(s)/Patent Under Reexam DUAN ET AL
	Examiner Patrick N.Edouard	Art Unit 2654
		Page 1 of 1

U.S. PATENT DOCUMENTS

	Document Number Country Code-Number-Kind Code	Date MM-YYYY ¹	Name	Classification ²	
A	5,528,491	6/1996	KUNO ET AL	704	9
B	5,642,519 ✓	6/1997	MARTIN	704	275
C					
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					

FOREIGN PATENT DOCUMENTS

	Document Number Country Code-Number-Kind Code	Date MM-YYYY ¹	Country	Name	Classification ²
N					
O					
P					
Q					
R					
S					
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NON-PATENT DOCUMENTS

	Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
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¹ A copy of this reference is not being furnished with this Office action. See MPEP § 707.05(e). ² Dates in MM-YYYY format are publication dates. ² Classifications may be U.S. or foreign.

Examiner Signature	PATRICK N. EDWARD	Date Considered 6/10/22	
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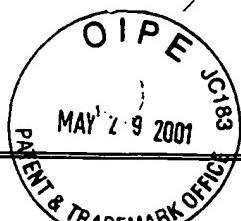
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Form PTO-1449 INFORMATION DISCLOSURE CITATION				Atty Docket No.:	Serial No.: 09/420,517		
				RECEIVED MAY 31 2001 Technology Center 2600			
List of Patents and Publications Statement (Use several sheets if necessary)				Applicant:			
				Lei Duan, et al.			
				Filing Date:	October 18, 1999		
U.S. PATENT DOCUMENTS							
Examiner Initials		Document No.	Patentee	Class	Sub-Class	Filing date if appropriate	
ME	AA	4,974,191	Siamak Amirbodsi, et al.	364	900	07/31/1987	
ME	AB	5,418,717	Key-Yih Su, et al.	364	419.08	12/12/1991	
ME	AC	5,677,835	Jaime G. Carbonell, et al.	364	419.02	12/22/1994	
ME	AD	5,799,268	Branimir K. Boguraev	704	9	09/28/1994	
ME	AE	5,806,021	Chengjun Julian Chen, et al.	704	9	09/04/1996	
ME	AF	5,864,788	Takeshi Kutsumi	704	2	05/26/1995	
ME	AG	5,873,056	Elizabeth D. Liddy, et al.	704	9	10/12/1993	
ME	AH	5,963,894	Stephen D. Richardson, et al.	704	9	05/20/1997	
FOREIGN PATENT DOCUMENTS							
No.		Document No.	Date	Country	Class	Sub-Class	Trans-lation
OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)							
ME	AI	PCT Search Report dated April 4, 2001, 4 pages.					
ME	AJ	PCT Search Report dated February 22, 2001, 5 pages.					
Examiner Patrick H. Edouard			Date Considered 08/10/02				
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Form PTO-1449		Atty Docket No.:	Serial No.:
INFORMATION DISCLOSURE CITATION		80398.P276	09/420,517

List of Patents and Publications Statement (Use several sheets if necessary)		Applicant: Lei Duan, et al.
		Filing Date: October 18, 1999

U.S. PATENT DOCUMENTS

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AB	5,418,717	Key-Yih Su, et al.	364	419.08	12/12/1991
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AG	5,873,056	Elizabeth D. Liddy, et al.	704	9	10/12/1993
AH	5,963,894	Stephen D. Richardson, et al.	704	9	05/20/1997

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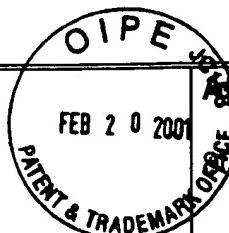
OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

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Form PTO-1449



Art Docket No.:

398P276

Serial No.:

09/420,517

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Applicant:

Lei Duan, et al.

Filing Date: October 18, 1999

U.S. PATENT DOCUMENTS

Examiner Initials		Document No.	Patentee	Class	Sub-Class	Filing date if appropriate
DL	AA	5,088,038	Katumi Tanaka, et al.	364	419	05/24/1990
DL	AB	5,426,583	Gregorio Uribe-Echebarria Diaz De Mendil	364	419.08	01/27/1994
DL	AC	5,510,981	Adam L. Berger, et al.	364	419.02	10/28/1993
ML	AD	5,528,491	Susumu Kuno, et al.	364	419.08	08/31/1992
ML	AE	5,535,120	Leighton K. Chong, et al.	364	419.03	06/07/1995
ML	AF	5,659,765	Seiji Nii	395	754	03/14/1995
ML	AG	5,768,603	Peter Fitzhugh Brown, et al.	395	759	06/02/1995
ML	AH	5,907,821	Hiroyuki Kaji, et al.	704	4	11/04/1996
ML	AI	5,983,169	John P. Kozma	704	2	11/13/1995
ML	AJ	6,161,083	Alexander Franz, et al.	704	4	04/24/1997

FOREIGN PATENT DOCUMENTS

No.		Document No.	Date	Country	Class	Sub-Class	Trans-lation
ML	AK	EPO 805 403 A2	May 2, 1997	EP			

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

ML	AL	PCT Search Report dated January 29, 2001, 6 pages.
ML	AM	PCT Search Report dated January 31, 2001, 5 pages.

Examiner	Patrick N. Edwards	Date Considered
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INFORMATION DISCLOSURE CITATION				80398P276		09/420,517	
List of Patents and Publications Statement (Use several sheets if necessary)				Applicant: Lei Duan, et al. Filing Date: October 18, 1999			
U.S. PATENT DOCUMENTS							
Examiner Initials		Document No.	Patentee	Class	Sub-Class	Filing date if appropriate	
	AA /	5,088,038	Katumi Tanaka, et al.	364	419	05/24/1990	
	AB /	5,426,583	Gregorio Uribe-Echebarria Diaz De Mendil	364	419.08	01/27/1994	
	AC /	5,510,981	Adam L. Berger, et al.	364	419.02	10/28/1993	
	AD /	5,528,491	Susumu Kuno, et al.	364	419.08	08/31/1992	
	AE /	5,535,120	Leighton K. Chong, et al.	364	419.03	06/07/1995	
	AF /	5,659,765	Seiji Nii	395	754	03/14/1995	
	AG /	5,768,603	Peter Fitzhugh Brown, et al.	395	759	06/02/1995	
	AH /	5,907,821	Hiroyuki Kaji, et al.	704	4	11/04/1996	
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	AK /	EPO 805 403 A2	May 2, 1997	EP			
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	AL	PCT Search Report dated January 29, 2001, 6 pages.					
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Page 1 of 1

Form PTO-1449 (Modified)

P A T E N T & T R A D E M A R K O F F I C E

Docket No.:
80398.P276Serial No.:
09/420,517List of Patents and Publications Statement
(Use several sheets if necessary)Applicants:
Duan et al.

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REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

Exam. Initial		Date	Document Number	Name	Class	Sub- Class	Filing Date

FOREIGN PATENT DOCUMENTS

No.		Document No.	Date	Country	Name	Class	Sub- Class	Trans- lation

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

PK	S. Kurohashi, T. Nakamura, Y. Matsumoto, M. Nagao. Improvements of Japanese Morphological Analyzer JUMAN. In: "Proceedings of the International Workshop on Sharable Natural Language Resources", p. 22-28, Nara, Japan, 1994.
PK	Kenneth W. Church, "A Stochastic Parts Program and Noun Phrase Parser for Unrestricted Text", in Proceedings of the Second Applied Natural Language Processing Conference, Austin, TX, 1988.
PK	Edited by Karen Jensen, George E. Heidorn, Stephen D. Richardson, "Natural Language Processing: The PLNLP Approach", Kluwer Academic Publishers, 1993, 22 pages.
PK	Stuart M. Shieber, "An Introduction to Unification-based Approaches to Grammar, CSLI, 1986, 23 pages.
PK	M. Tomita, T. Mitamura, H. Musha, M. Kee, "The Generalized LR Parser/Compiler Version 8.1: User's Guide", CMU-CMT-88-MEMO, 20 April 1988, 44 pages.
PK	M. Tomita, K. Knight, "Pseudo-Unification and Full-Unification", CMU, 1987, 10 pages.
PK	M. Ishii, K. Ohta, H. Saito, "An Efficient Parser Generator for Natural Language", COLING 1994, 3 pages.
PK	O. Furuse, H. Iida, "An Example-Based Method for Transfer-Driven Machine Translation", Proceedings of the Conference on Theoretical and Methodological Issues in Machine Translation (TMI-92), 1992, p. 139-150.
PK	P. Resnik, "Using Information Content to Evaluate Semantic Similarity in a Taxonomy", Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI-95), 1995.
PK	T. C. Bell, J. G. Cleary, I. H. Witten, "Text Compression", Prentice Hall, 1990, 19 pages.
PK	H. Maruyama, H. Watanabe, "Tree Cover Search Algorithm for Example-Based Translation", in Proceedings of the Fourth International Conference on Theoretical and Methodological Issues in Machine Translation" (TMI-92), 1992, p. 173-184.

Examiner

PATRICK H. EDWARDS

Date Considered

02/19/02

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List of Patents and Publications Statement (Use several sheets if necessary)				Applicants: Duan et al.				
				Filing Date: October 18, 1999				
REFERENCE DESIGNATION			U.S. PATENT DOCUMENTS					
Exam. Initial		Date	Document Number	Name	Class	Sub- Class	Filing Date	
FOREIGN PATENT DOCUMENTS								
No.		Document No.	Date	Country	Name	Class	Sub- Class	Trans- lation
OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)								
		S: Kurohashi, T. Nakamura, Y. Matsumoto, M. Nagao. Improvements of Japanese Morphological Analyzer JUMAN. In: "Proceedings of the International Workshop on Sharable Natural Language Resources", p. 22-28, Nara, Japan, 1994.						
		Kenneth W. Church, "A Stochastic Parts Program and Noun Phrase Parser for Unrestricted Text", in Proceedings of the Second Applied Natural Language Processing Conference, Austin, TX, 1988.						
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		M. Tomita, K. Knight, "Pseudo-Unification and Full-Unification", CMU, 1987, 10 pages.						
		M. Ishii, K. Ohta, H. Saito, "An Efficient Parser Generator for Natural Language", COLING 1994, 3 pages.						
		O. Furuse, H. Iida, "An Example-Based Method for Transfer-Driven Machine Translation", Proceedings of the Conference on Theoretical and Methodological Issues in Machine Translation (TMI-92), 1992, p. 139-150.						
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet _____ **of** _____ **Attorney Docket Number** **080398.P276**

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Form PTO-1449			Atty Docket No.:	Serial No.:			
INFORMATION DISCLOSURE CITATION			080398.P276		09/420,517		
List of Patents and Publications Statement (Use several sheets if necessary)			Applicant: Hawley K. Rising Filing Date: October 18, 1999				
U.S. PATENT DOCUMENTS							
Examiner Initials		Document No.	Patentee	Class	Sub-Class	Filing date if appropriate	
	/	5,644,755	Suzanne M. Thompson, et al.			07-01-1997	
	-	5,884,247	Sam Christy			03-16-1999	
	/	6,301,554	Samuel T. Christy			10-09-2001	
FOREIGN PATENT DOCUMENTS							
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